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Virginia Nather, Ward Sangren

January 1959 Communications of the ACM, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(3.51 MB)

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2 Abstracts— additional nuclear reactor codes

Sylvingina Nather, Ward Sangren

January 1960 Communications of the ACM, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(940.91 KB) Additional Information: full citation

3 The role of computer systems in the nuclear power debate

Kevin W. Bowyer

April 1980 ACM SIGCAS Computers and Society, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available: pdf(489.92 KB) Additional Information: full citation, abstract, references

One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.

4 Procedure writing across domains: nuclear power plant procedures and computer

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Douglas R. Wieringa, David K. Farkas

October 1991 Proceedings of the 9th annual international conference on Systems documentation SIGDOC '91

Publisher: ACM Press

Full text available: pdf(852.26 KB) Additional Information: full citation, references, index terms

5 Software safety: why, what, and how Nancy G. Leveson June 1986 ACM Computing Surveys (CSUR), Volume 18 Issue 2 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(4.18 MB) terms, review Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics. 6 Computer system reliability and nuclear war Alan Borning February 1987 Communications of the ACM, Volume 30 Issue 2 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.50 MB) terms, review Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles. 7 A systematic approach to the development and validation of critical software for nuclear power plants C. V. Ramamoorthy, F. B. Bastani, J. M. Favaro, Y. R. Mok, C. W. Nam, K. Suzuki September 1979 Proceedings of the 4th international conference on Software engineering ICSE '79 **Publisher: IEEE Press** Full text available: pdf(911.14 KB) Additional Information: full citation, abstract, references, index terms The power industry is becoming increasingly interested in the use of digital computers within nuclear plant protection systems in order to satisfy increased safety requirements, provide greater operating flexibility, minimize spurious forced outages, and (in conjunction with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

8 Programanalysis - A method for the verification of software for the control of a nuclear reactor

W. Ehrenberger, G. Rauch, K. Okroy

October 1976 Proceedings of the 2nd international conference on Software engineering ICSE '76

Publisher: IEEE Computer Society Press

Full text available: ndf(394.95 KB) Additional Information: full citation, abstract, references, index terms

The number of tests, which are necessary to prove the performance of a program, can be reduced to an executable number, if the structure of the program is investigated. The analysis starts from the memory dump. The program is first divided into those pieces, which are without labels or branchings. Then the mappings of the program and their input and output areas are identified, further those areas which influence branchings. The next step states, which ranges of values in the individual are ...

Keywords: Process computers, Program analysis, Program testing, Reactor safety, Software reliability, User programs, Verification

9	Illustrative risks to the public in the use of computer systems and related technology Peter G. Neumann January 1996 ACM SIGSOFT Software Engineering Notes, Volume 21 Issue 1	
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12	Numerical computations: its nature and research directions J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub February 1979 ACM SIGNUM Newsletter, Volume 14 Issue si-1 Publisher: ACM Press	
	Full text available: pdf(4.43 MB) Additional Information: full citation, abstract, references, citings This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.	
13	Applications Gordon E. Stokes January 1970 Proceedings of the 1970 25th annual conference on Computers and crisis: how computers are shaping our future ACM '70, Computers and	
	crisis Publisher: ACM Press Full text available: pdf(532.16 KB) Additional Information: full citation, abstract	
	Mr. Kaplan spoke of nuclear reactors as a promise to the world, and a challenge to the computer community.	
14 ③	Composition and refinement of discrete real-time systems Jonathan S. Ostroff January 1999 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 1 Publisher: ACM Press	
	Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index	

Reactive systems exhibit ongoing, possibly nonterminating, interaction with the environment. Real-time systems are reactive systems that must satisfy quantitative timing constraints. This paper presents a structured compositional design method for discrete real-time systems that can be used to combat the combinatorial explosion of states in the verification of large systems. A composition rule describes how the correctness of the system can be determined from the correctne ...

Keywords: abstraction, model-checking, modules, refinement, state explosion, temporal logic, timed logic

15 The applied mathematics laboratory of the David W. Taylor Model Basin Morris Richstone September 1961 Communications of the ACM, Volume 4 Issue 9 Publisher: ACM Press Full text available: pdf(1.47 MB) Additional Information: full citation, references, index terms 16 Real-time disturbance control B. Chandrasekaran, R. Bhatnager, D. D. Sharma
August 1991 Communications of the ACM, Volume 34 Issue 8 Publisher: ACM Press Additional Information: full citation, references, citings, index terms, Full text available: pdf(3.75 MB) review 17 Modeling software design diversity: a review Bev Littlewood, Peter Popov, Lorenzo Strigini June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2 **Publisher: ACM Press** Additional Information: full citation, abstract, references, citings, index Full text available: pdf(259.57 KB)

Design diversity has been used for many years now as a means of achieving a degree of fault tolerance in software-based systems. While there is clear evidence that the approach can be expected to deliver some increase in reliability compared to a single version, there is no agreement about the extent of this. More importantly, it remains difficult to evaluate exactly how reliable a particular diverse fault-tolerant system is. This difficulty arises because assumptions of independence of fai ...

Keywords: *N*-version software, control systems, functional diversity, multiple version programming, protection systems, safety, software fault tolerance

Software safety in embedded computer systems
Nancy G. Leveson
February 1991 Communications of the ACM, Volume 34 Issue 2
Publisher: ACM Press

Additional Information: full citation, references, citings, index terms

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19 COLUMN: Risks to the public

Full text available: pdf(2.83 MB)

Peter G. Neumann

July 2007 ACM SIGSOFT Software Engineering Notes, Volume 32 Issue 4

Publisher: ACM

Full text available: pdf(319.47

Additional Information: <u>full citation</u>, <u>index terms</u>

The expanding world of computers

KB)

E. L. Harder

April 1968 Communications of the ACM, Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(2.70 MB) Additional Information: full citation, abstract

The onward sweep of automatic processing of information is impeded by nine principal barriers: geography, cost, problem complexity, man-machine communication, inadequate sensors, lack of understanding, distance, time, and size. The main incentive for breaching these barriers is the universal need for processing information, ever more urgent as the greater part of human work activity changes from production to service. Computer developments in hardware, programming, time-sharing, ...

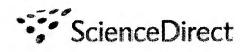
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